

## ABSTRACT OF THE DISCLOSURE

A method for manufacturing a glass base material, which is a base material of an optical fiber, comprising: forming a core of the glass base material; forming the core includes: accumulating glass particles on a starting rod to form a porous glass soot; sintering the porous glass soot in an atmosphere of mixed gas that contains fluorine-compound gas to form a GI type refractive index profile, the refractive index of which gradually decreases with a distance from a center of the core; and forming a clad of the glass base material around the core.

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